

SAFETY DATA SHEET

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BRODI SPECIALTY PRODUCTS LTD.
3175 14th Avenue, Unit 1
Markham, Ontario, L3R 0H1
Canada
1-877-744-0751

PRODUCT: MARZO

CODE: 7283

SECTION 01: IDENTIFICATION

Supplier identifier..... BRODI SPECIALTY PRODUCTS LTD.
3175 14th Avenue, Unit 1
Markham, Ontario
Canada
L3R 0H1
1-877-744-0751
Product identifier..... MARZO
Product code..... 7283
Emergency telephone number..... CANUTEC 24-hour number (613-996-6666).
Product use..... Heavy duty grease trap treatment.

SECTION 02: HAZARD IDENTIFICATION



According to Hazardous Products
Regulations (HPR) (SOR/2015-17)
Hazard classification.....

Flammable Liquids — Category 3. Skin Irritation — Category 2. Eye Irritation — Category 2A. Carcinogenicity - Category 1. Specific Target Organ Toxicity - Single Exposure - Category 3 (irritation). Specific Target Organ Toxicity — Repeated Exposure — Category 2 (central nervous system, liver, kidney, blood). Aspiration Hazard — Category 1.

Signal word.....
Hazard statement.....

DANGER.
H226 Flammable liquid and vapour. H315 Causes skin irritation. H319 Causes serious eye irritation. H350 May cause cancer. H335 May cause respiratory irritation. H373 May cause damage to organs (central nervous system, liver, kidney, blood) through prolonged or repeated exposure. H304 May be fatal if swallowed and enters airways.

Precautionary statements.....

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 Keep container tightly closed. P240 Ground and bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/lighting equipment. P242 Use non-sparking tools. P243 Take action to prevent static discharge. P264 Wash thoroughly after handling. P280 Wear protective gloves/protective clothing/eye protection/face protection. P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P260 Do not breathe mist/vapours/spray. P271 Use only outdoors or in a well-ventilated area. P370+P378 In case of fire: Use dry chemical, alcohol foam, carbon dioxide or water spray to extinguish. . P302+P352 IF ON SKIN: Wash with plenty of soap and water. P332+P313 If skin irritation occurs: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash before reuse. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice/attention. P308+P313 IF exposed or concerned: Get medical advice/attention. P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P312 Call a POISON CENTER or doctor/physician if you feel unwell. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P331 Do NOT induce vomiting. P403+P235 Store in a well-ventilated place. Keep cool. P405 Store locked up. P501 Dispose of contents/container to an approved waste disposal plant.

Other hazards.....
Supplemental Information.....

None.
Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials and food and drink.

SECTION 03: COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME AND SYNONYMS	CAS #	WT. %
Light aromatic solvent naphtha, petroleum	64742-95-6	80-100
1,2-Dichlorobenzene	95-50-1	5-10
2-Butoxyethanol	111-76-2	3-7

<The exact concentration of composition has been withheld as a trade secret>

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SECTION 04: FIRST-AID MEASURES

Routes of exposure	
Inhalation.....	If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.
Ingestion.....	Do not induce vomiting; aspiration hazard. Dilute with 1-2 glasses of water. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.
Skin contact.....	Promptly wash skin thoroughly with soap and water and rinse for 15 minutes. Remove contaminated clothing and laundry before reuse. If irritation develops, get medical aid.
Eye contact.....	Do not rub eyes. Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and persists.
Most important symptoms and effects, both acute and delayed	The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

SECTION 05: FIRE-FIGHTING MEASURES

Extinguishing media.....	Do not use water jet as an extinguisher, as this will spread the fire. Use water spray or fog, foam, carbon dioxide or dry chemical.
Hazardous combustion products.....	Carbon monoxide, carbon dioxide, hydrocarbons. Chlorine, Hydrogen chloride gas. Nitrogen oxides (NOx). Harmful vapours.
Special protective equipment and precautions	Firefighters should be equipped with self-contained breathing apparatus and turn-out gear. Cool closed containers exposed to fire with water spray.
Further information.....	Vapors are heavier than air and may flow along surfaces to remote ignition sources and flash back. Contaminated extinguishing water must be disposed of in accordance with official regulations.

SECTION 06: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Use personal protective clothing. Eliminate all sources of ignition. Ventilate area if indoors. Restrict access to area until completion of clean up. Evacuate personnel to safe areas. Ensure clean up is conducted by trained personnel only.
Environmental precautions.....	Prevent spilled material from entering the ground, water and/or air by using appropriate containment methods.
Methods and materials for containment and cleaning up	Ventilate area. Contain and absorb spilled liquid with non combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal. Flush with water. Do not flush into surface water or sanitary sewer system. Do not place into containers where ignition sources such as cigarettes or other ignition sources may be discarded. Dispose of absorbed material in accordance with regulations. Contaminated absorbent material may pose the same hazards as the spilled product.

SECTION 07: HANDLING AND STORAGE

Handling precautions.....	Use good industrial hygiene practices in handling this material. Do not eat, drink or smoke when using this product. Avoid contact with skin and eyes. Containers should be grounded when being emptied.
Storage needs.....	Keep in a dry, cool and well-ventilated place. Keep containers tightly closed when not in use.
Materials to avoid.....	Keep away from oxidizing agents.

SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	NIOSH REL
Light aromatic solvent naphtha, petroleum	not available	not available	not available	not available	not available
1,2-Dichlorobenzene	25 ppm	50 ppm	25 ppm	50 ppm	25 ppm
2-Butoxyethanol	20 ppm	not available	50 ppm	not available	not available
Engineering controls.....	Good general ventilation (typically 10 air changes per hour) should be used.				
Individual protection measures					
Eye/type.....	Safety glasses with side-shields.				
Gloves/type.....	Wear chemical resistant protective gloves.				
Respiratory/type.....	If using in a poorly ventilated area, wear a properly fitted respirator (NIOSH approved) during exposure.				
Clothing/type.....	Wear clean long legged, long sleeved work clothes.				

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SECTION 08: EXPOSURE CONTROLS / PERSONAL PROTECTION

Hygiene measures..... Handle in accordance with good industrial hygiene and safety practice. Remove soiled clothing and wash it thoroughly before reuse. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities.

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

Appearance..... liquid.
 Color..... yellow.
 Odour..... solvent odour.
 Odour threshold..... not available.
 pH..... not applicable.
 Melting point (°C)..... not applicable.
 Freezing point (°C)..... not available.
 Initial boiling point (°C)..... 160.
 Flash point (°C), Method..... 47 CC.
 Evaporation rate..... not available.
 Upper flammability limit (% vol)..... 6.
 Lower flammability limit (% vol)..... 0.8.
 Vapour pressure (mm Hg)..... 6.1.
 Vapour density (air=1)..... > 1.
 Relative density/Specific Gravity..... 0.88.
 Water solubility..... insoluble.
 Solubility in other solvents..... not available.
 Partition coefficient — n-octanol/water..... not available.
 Auto ignition temperature (°C)..... > 200 °C.
 Thermal decomposition temperature..... not available.
 Viscosity..... thin liquid.

SECTION 10: STABILITY AND REACTIVITY

Reactivity..... No hazardous reactions if stored and handled as prescribed/indicated.
 Chemical stability..... The product is stable if stored and handled as prescribed/indicated.
 Possibility of hazardous reactions..... No hazardous reactions when stored and handled according to instructions. The product is chemically stable.
 Conditions to avoid..... Keep away from heat. Keep away from sources of ignition. Keep away from incompatibles such as oxidizing agents.
 Incompatible materials..... Strong oxidizing agents.
 Hazardous decomposition products..... Toxic gases/fumes may be given off during burning or thermal decomposition. May include and are not limited to: hydrogen chloride, chlorine gas, oxides of nitrogen, ammonia, oxides of carbon.

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
Light aromatic solvent naphtha, petroleum	>76.3 mg/l (inhalation-rat, 4h)	>5,000 mg/kg (oral-rat); >2,000 mg/kg (dermal-rabbit)
1,2-Dichlorobenzene	14 mg/l (inhalation-rat, 4H)	500 mg/kg (oral-rat); 10,000 mg/kg (dermal-rabbit)
2-Butoxyethanol	2.2 mg/l (inhalation-rat, 4 h)	530 mg/kg (oral-rat); 450 mg/kg (dermal-rabbit)
Routes of exposure		
Inhalation.....	Inhalation of vapours may cause irritation to the nose, throat and respiratory tract.	
Ingestion.....	Ingestion of this product may cause nausea, vomiting and diarrhea. May cause irritation of the stomach. Small amounts of this product, if aspirated into the lungs, may cause mild to severe pulmonary injury.	
Skin contact.....	Contact may cause skin irritation.	
Eye contact.....	Contact may cause eyes irritation.	
Acute effects		
Acute oral toxicity.....	Acute toxicity estimate > 2,000 mg/kg. Method: calculation method. Virtually nontoxic after a single ingestion.	
Acute dermal toxicity.....	LD50 (Rabbit) : > 2,000 mg/kg. Method: calculation method. Virtually nontoxic after a single skin contact.	
Acute inhalation toxicity.....	Acute toxicity estimate : > 20 mg/l. Exposure time: 4 h. Method: calculation method. Virtually nontoxic by inhalation.	
Skin corrosion/irritation.....	Result: Severe skin irritation.	
Serious eye damage/eye irritation.....	Result: Severe eye irritation.	
Respiratory or skin sensitisation.....	Non-sensitizing.	

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SECTION 11: TOXICOLOGICAL INFORMATION

Specific target organ toxicity (STOT) Respiratory tract irritation.
single exposure
Aspiration hazard..... Aspiration hazard. If swallowed, may be aspirated and cause lung damage.
Chronic toxicity/effects
Specific target organ toxicity (STOT) May cause damage to organs (central nervous system, liver, kidney, blood) through
repeated exposure prolonged or repeated exposure.
Carcinogenicity..... May cause cancer. Risk of cancer depends on duration and level of exposure.
Reproductive toxicity..... No known significant effects or critical hazards.
Germ Cell Mutagenicity..... No known significant effects or critical hazards.
Remarks..... The product has not been tested. The statement has been derived from the properties of
the individual components.
Symptoms of Exposure..... The most important known symptoms and effects are described in the labelling (see
section 2) and/or in section 11. Further important symptoms and effects are so far not
known.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity..... May cause long-term adverse effects in the aquatic environment.
Persistence and degradability..... Moderately persistent in the environment. The product is virtually insoluble in water and
can thus be separated from water mechanically in suitable effluent treatment plants.
Bioaccumulative potential..... No data available.
Mobility in soil..... No data available.
Other adverse effects..... No data available.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal methods
Waste disposal of substance..... Dispose of in accordance with national, state and local regulations.
Container disposal Dispose of in a licensed facility. Recommend crushing, puncturing or other means to
prevent unauthorized use of used containers.

SECTION 14: TRANSPORT INFORMATION

TDG classification..... UN1268, Petroleum distillates, n.o.s. (solvent naphtha petroleum, light aromatic), Class 3,
PGIII.

SECTION 15: REGULATORY INFORMATION

WHMIS regulatory status..... This product has been classified in accordance with the hazard criteria of the Canadian
Hazardous Products Regulations and the Safety Data Sheet contains all the information
required by the Hazardous Products Regulations (WHMIS 2015). This product is WHMIS
2015 controlled.

SECTION 16: OTHER INFORMATION

Disclaimer..... The information provided in this Safety Data Sheet is correct to the best of our knowledge,
information and belief at the date of its publication. The information given is designed only
as a guidance for safe handling, use, processing, storage, transportation, disposal and
release and is not to be considered a warranty or quality specification.
Prepared by: CanChem Consultant
Preparation date..... FEB 28/2019